	Application No.	Applicant(s)		
Notice of Allowability	09/975,810	O'DONNELL ET AL	O'DONNELL ET AL.	
	Examiner	Art Unit		
	Andrew W. Johns	2621		
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comm GHTS. This application is	n this application. If not include unication will be mailed in due	ed course. THIS	
1. \boxtimes This communication is responsive to <u>the interview of 9/21/0</u>	<u>04</u> .			
2. The allowed claim(s) is/are <u>1-19</u> .				
3. \boxtimes The drawings filed on <u>12 October 2001</u> are accepted by the	e Examiner.			
4. ☐ Acknowledgment is made of a claim for foreign priority un a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have	been received.			
2. Certified copies of the priority documents have				
3. Copies of the certified copies of the priority doc	cuments have been receive	d in this national stage applicat	tion from the	
International Bureau (PCT Rule 17.2(a)). * Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file ENT of this application.	e a reply complying with the req	uirements	
5. A SUBSTITUTE OATH OR DECLARATION must be subministration (PTO-152) which give	itted. Note the attached EX reason(s) why the oath o	AMINER'S AMENDMENT or North of the control of the c	OTICE OF	
 CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the 	on's Patent Drawing Revier Amendment / Comment o	r in the Office action of	back) of	
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MAT	ERIAL must be submitted. N	lote the	
	er i jerina			
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of In	formal Patent Application (PTC)-152)	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		ummary (PTO-413),	, , , , , , , , , , , , , , , , , , , ,	
3. Information Disclosure Statements (PTO-1449 or PTO/SB/06	Paper No.	Paper No./Mail Date <u>9/21/04</u> . 7. ⊠ Examiner's Amendment/Comment		
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit	8 🕅 Evaminer's	Statement of Reasons for Allov	Nanco	
of Biological Material	9. 🔲 Other		Hariou	

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 C.F.R. § 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Donald Paschburg (Reg. No. 33,753) on 21 September 2004.

The application has been amended as follows:

In the specification:

On page 7, following the first paragraph and before "DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS" insert --Fig. 6 is a flow diagram of the method for generation of a 3D statistical shape model for a left ventricle of a heart.--

In the claims:

In claim 1, at line 3, change "the" to read --a plurality of--.

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2. The following is an examiner's statement of reasons for allowance: None of the prior art teaches or suggests the claimed invention. Specifically, while Sheehan et al. '084 generates a model of the left ventricle of the heart, and further averages landmarks during the generation of this model, Sheehan et al. '084 fails to teach aligning a plurality of datasets to generate an average left ventricle, selecting landmarks and setting weights expressing confidence for each landmark, as required by claim 1, or averaging landmarks that have been assigned to datasets after a template model is created and a plurality of left ventricle contour datasets have been

aligned, as required by claims 2 and 11. Therefore, none of the prior art teaches or suggests the claimed invention.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

- 3. Claims 1-19 are allowed.
- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Sheehan et al. '310 includes similar teachings to Sheehan et al. '084, but also fails to teach setting weights expressing confidence for landmarks or averaging landmarks assigned to datasets after creation of a template model and the alignment of a plurality of left ventricle contour datasets. O'Donnell et al. teaches the formation of a left ventricle model, as does Paragios et al.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew Johns whose telephone number is (703) 305-4788. The examiner in normally available Monday through Friday, at least during the hours of 9:00 am to 3:00 pm Eastern Time. The examiner may also be contacted by e-mail using the address: andrew.johns@uspto.gov. (Applicant is reminded of the Office policy regarding e-mail communications. See M.P.E.P. § 502.03)

If attempts to reach the examiner are unsuccessful, the examiner's supervisor, Leo Boudreau, can be reached on (703) 305-4706. The fax phone number for this art unit is (703) 872-9306. In order to ensure prompt delivery to the examiner, all unofficial communications should be clearly labeled as "Draft" or "Unofficial."

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center Receptionist whose telephone number is (703) 305-4700.

A. Johns21 September 2004

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Application/Control Number: 09/975,810

Art Unit: 2621

Notice to Applicant

The papers filed on 25 January 2002 (certificate of mailing dated 02 January 2002) have not been made part of the permanent records of the United States Patent and Trademark Office (Office) for this application (37 C.F.R. § 1.52(a)) because of damage from the United States Postal Service irradiation process. The above-identified papers, however, were not so damaged as to preclude the USPTO from making a legible copy of such papers. Therefore, the Office has made a copy of these papers, substituted them for the originals in the file, and stamped that copy:

COPY OF PAPERS ORIGINALLY FILED

If applicant wants to review the accuracy of the Office's copy of such papers, applicant may either inspect the application (37 C.F.R. § 1.14(d)) or may request a copy of the Office's records of such papers (i.e., a copy of the copy made by the Office) from the Office of Public Records for the fee specified in 37 C.F.R. § 1.19(b)(4). Please do **not** call the Technology Center's Customer Service Center to inquiry about the completeness or accuracy of Office's copy of the above-identified papers, as the Technology Center's Customer Service Center will **not** be able to provide this service.

If applicant does not consider the Office's copy of such papers to be accurate, applicant must provide a copy of the above-identified papers (except for any U.S. or foreign patent documents submitted with the above-identified papers) with a statement that such copy is a complete and accurate copy of the originally submitted documents. If applicant provides such a copy of the above-identified papers and statement within **THREE MONTHS** of the mail date of this Office action, the Office will add the original mailroom date and use the copy provided by applicant as the permanent Office record of the above-identified papers in place of the copy made by the Office. Otherwise, the Office's copy will be used as the permanent Office record of the above-identified papers (*i.e.*, the Office will use the copy of the above-identified papers made by the Office for examination and all other purposes). This three-month period is not extendable.

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